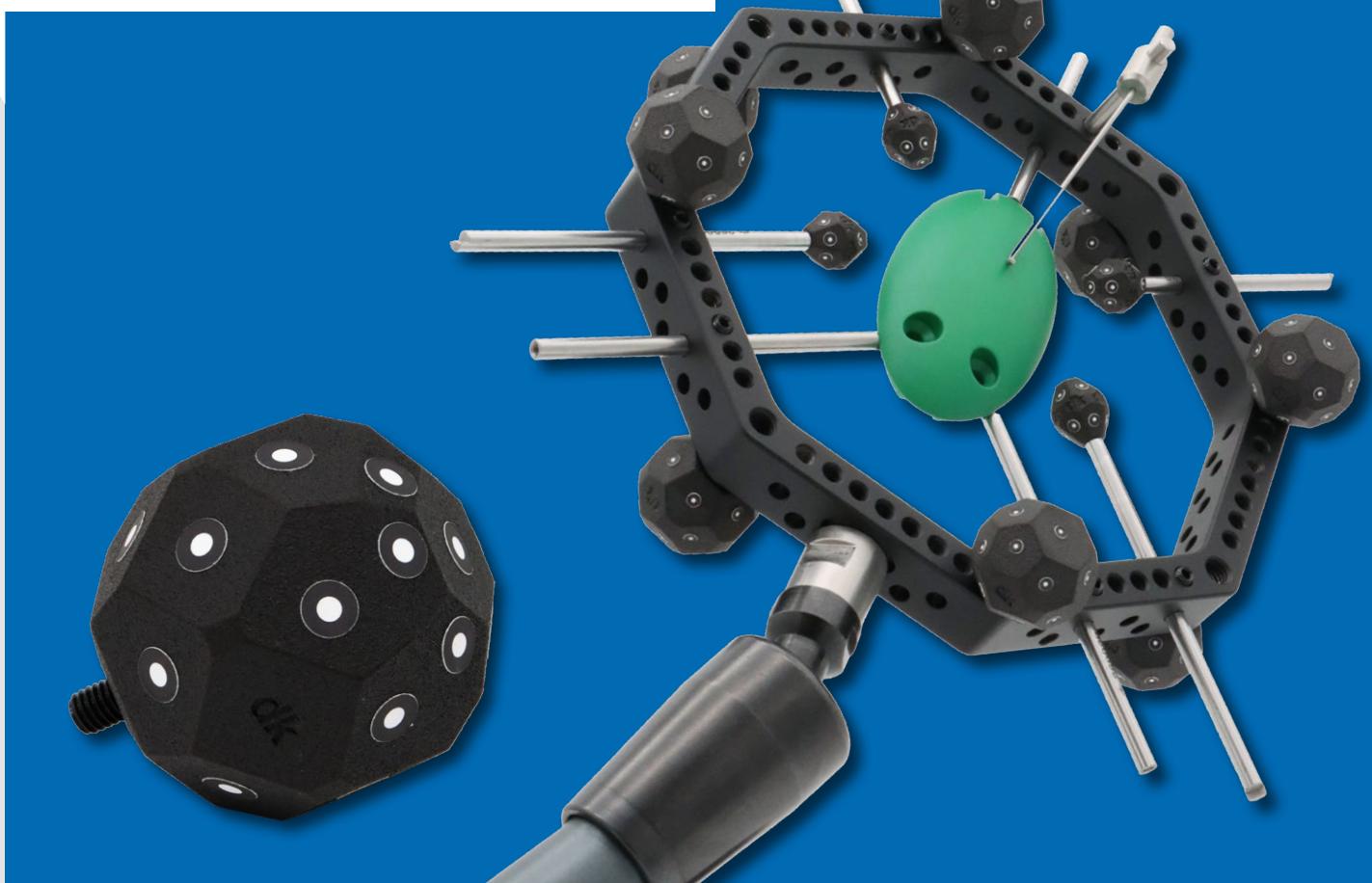


*Target-Base
clamping systems
for 3D scanning*



For every scanning process the optimum solution with Target-Bases, Target-Supports and fixating systems

Reference points, dot marks, targets, measurement marks or adhesive marks...

The designations for measuring points for referencing in the various scanning measurement technologies are very diverse. However, the problem is always the same: these self-adhesive points cause a lot of extra work when they are stuck directly onto the test specimen and then have to be removed again afterwards leaving no residues. The ideal scenario for many metrology technicians is that the measuring points are not stuck directly onto the component, but onto special elements that can be spatially positioned anywhere to suit the test specimen and the measuring task. dk offers many freely configurable solutions here that go far beyond simple frames.



OCTOFIX frames

For holding small parts & positioning Target-Bases sizes M and S



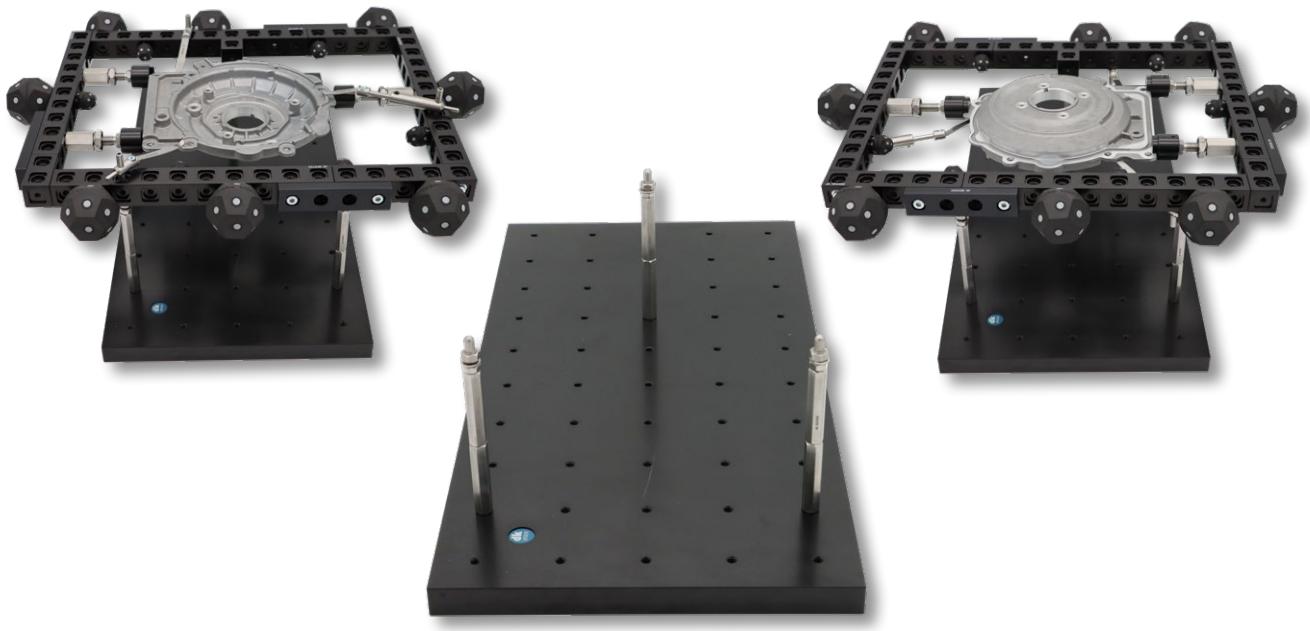
SWA39 clamping system & OCTOFIX frames

For holding small parts and positioning Target-Bases



QUADERFIX reversible frames

For part fixation with freely positional Target-Bases
on SPANNFIX ECO baseplates



QUADERFIX clamping system

For holding larger parts with Target-Bases
on a freely positionable fixating system



Target-Bases

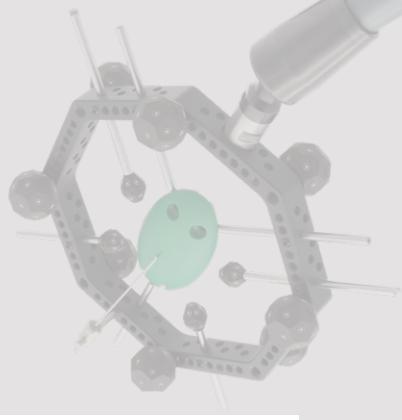
- » Different sizes with up to 31 faces per base
- » With thread or magnet
- » For conventional dot marks from Ø 0.8 to 12 mm

SPANNFIX PRO clamping system

For fixating complex parts combined with articulated arms for 3D positioning of the
Target-Bases via Target-Supports



Module system OCTOFIX as stationary frame



OCTOFIX set



Perfection through module system and SWA39 quick-change interface:

- » Base rail for exact alignment in the axis of rotation
- » SWA39 quick-change interface for efficient changes between different pre-setup fixations
- » Secure fixation of the test specimen with minimal concealment by retaining elements
- » Repeat accurate part fixation by series measurements
- » Reference marks remain in the set position

OCTOFIX frames

Wide field of applications through comprehensive module system:

- » Frames with many connection and adjustment possibilities
- » Functional pins with female thread and stepped support on the opposite side for use as a holder for both the component and the Target-Bases
- » Infinite radial adjustment of the functional pin with secure locking with a grubscrew
- » Freely positional spring finger with column for part fixation
- » Target-Bases size M for screwing onto the frame and size S for screwing onto the adjustable pin



Components of OCTOFIX

Sets

OCTOFIX basic set

Description

Set contains 1 x quick-action clamp on a base rail (263715);
1 x 200 mm OCTOFIX frame complete with substructure (441100);
6 x 60 mm functional pins (269028); 6 x 80 mm functional pins (269029);
3 x 100 mm functional pins (269030); 2 x M4 columns for spring fingers (269042);
2 x Ø 4 mm spring fingers, L 60 mm (269039); 2 x M6 columns for spring fingers (368200);
2 x Ø 6 mm spring fingers, L 95 mm (302780); 10 x Target-Bases size S (441000);
10 x Target-Bases size M (441010)

Order number

441200



Individual components

SWA39 quick-action clamp on an adjustable base rail

Description

For mounting on turntable or baseplate with threads;
adjustment range 170 mm; with M 5, M 6 and M 8 fastening screws

Order number

263715



SWA39 200 mm OCTOFIX frame for parts up to Ø 160 mm compl. with substructure

Description

Frame, 100 mm elevating column and SWA39 quick-change adapter; with Ø 4 mm
mounting hole for functional pin, M6 thread for Target-Bases M and M 4 thread with
grubsscrew for locking the fixating pin or Target-Base pin; each thread can also be
used for the mounting column for M 4 and M 6 spring fingers

Order number

441100



Ø 4 mm functional pin for part fixation and Target-Base bracket

Description

One side with M 2.5 female thread / other side with stepped support; L 60 mm
One side with M 2.5 female thread / other side with stepped support; L 80 mm
One side with M 2.5 female thread / other side with stepped support; L 100 mm

Order number

269028



Column with thread for spring finger

Description

Ø 4 mm; M 4; L 30 mm for spring finger 269039
Ø 6 mm; M 6; L 50 mm for spring finger 302780

Order number

269042



Spring finger, round type

Description

Adapter Ø 4 mm; L 60 mm; wire thickness 1.1 mm
Adapter Ø 6 mm; L 95 mm; wire thickness 1.5 mm

Order number

269039



Thrust clamp Ø 4 mm, sprung

Description

L 115 mm; spring travel 15 mm; conical tip and 3D joint

Order number

269057



Target-Base size S and M, 10 piece set (no adhesive marks)

Description

10 x S with 13 faces; M 2.5 thread; suitable for Ø 1.5 mm reference points
10 x M with 19 faces; M 6 thread; suitable for Ø 3 mm reference points

Order number

441000



Fixating system SWA39 + OCTOFIX Target-Frames

Universal test piece fixating system SWA39 with quick-change interface for medium sized parts

- » Base rail for exact alignment in the axis of rotation
- » SWA39 quick-change interface for efficient changes between different clamping devices and pre-setup clamped parts
- » Secure fixation of the test specimen with minimal concealment by retaining elements
- » Simple and repeat accurate part fixation by series measurements
- » SWA39 module system with wide selection of clamping devices in various sizes and with diverse accessories



Universal Target-Base system OCTOFIX with a 3D articulated arm suitable for SWA39

- » Frame with fastening possibilities for up to 16 Target-Bases size M each with 19 faces
- » Hex column as extension for positioning the Target-Bases spaced at 50 mm to the frame and so up to 100 mm from each other
- » High-strength 3D articulated arm with central lock and toothed ring for maximum stability and strength of the Target-Bases
- » Perfect positioning of the targets for maximally efficient process

Example applications



Many other solutions from the dk fixating programs can be used for scanning but also with tactile and optical measuring machines, computed tomography, surface and contour measuring machines etc.

SWA39 + OCTOFIX components

Sets

OCTOFIX basic set SWA39 vice

Description	Order number
Set contains 1 x quick-action clamp on a base rail (263715); 1 x 50 mm precision vice set (440030); 4 x 35 mm steel dowel pins (282310); 4 x 80 mm carbon dowel pins (440040); 1 x adjustable base rail (245150); 1 x TurnStop articulated joint (241030); 1 x 200 mm OCTOFIX frame (441105); 10 x Target-Bases size M (441010); 6 x M6 columns for Target-Base (441050)	441210



Individual components

SWA39

SWA39 quick-action clamp on an adjustable base rail

Description	Order number
For mounting on turntable or baseplate with threads; adjustment range 170 mm; with M5, M6 and M8 fastening screws	263715



50 mm precision vice set with SWA39 interface

Description	Order number
Jaw width 50 mm; clamping width 35 mm with exchange set for 75 mm; incl. actuating knob 282101	440030



Round clamp intermediate element

Description	Order number
Steel; straight stepped; L 35 mm; 1 set of 4	282310
Carbon; straight stepped; L 80 mm; 1 set of 4	440040



OCTOFIX

Adjustable base rail for M5, M6 and M8

Description	Order number
For mounting on turntables; adjustment range 170 mm; mounting of articulated arm via M8	245150



TurnStop articulated joint TS-280 with 280 mm action radius

Description	Order number
For arbitrary spatial positioning of the OCTOFIX frames; Lower connector thread M8; upper connector thread for OCTOFIX M8; high-strength central locking with progressive clamping sequence and toothed disc	241030



200 mm OCTOFIX frame for parts up to Ø 160 mm

Description	Order number
Frame for mounting on 3D articulated arm with a Ø 4 mm mounting hole for functional pins, M6 thread for Target-Bases M and M4 thread with grub screw for locking the fixating pin or Target-Base pin; each thread can also be used for the mounting column for M4 and M6 spring fingers	441105



Hex column with M6 thread for Target-Bases

Description	Order number
L 50 mm; 6 faces for adhesive marks; for screwing onto OCTOFIX	441050

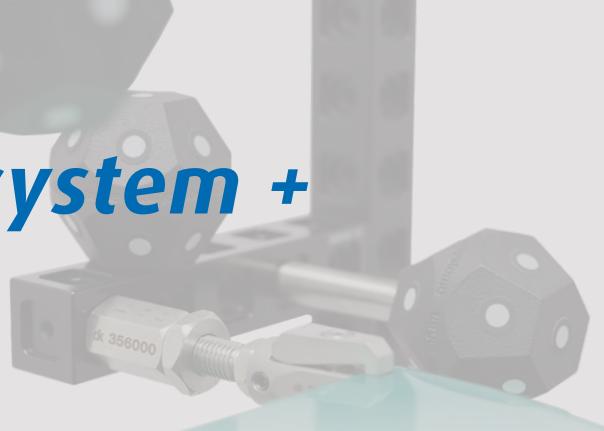


Target-Base size M, 10 piece set

Description	Order number
10 x M with 19 faces; M6 thread; suitable for Ø 3 mm reference points	441010

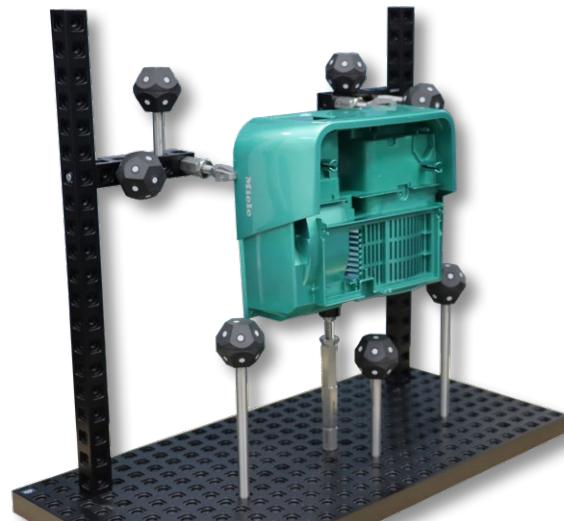
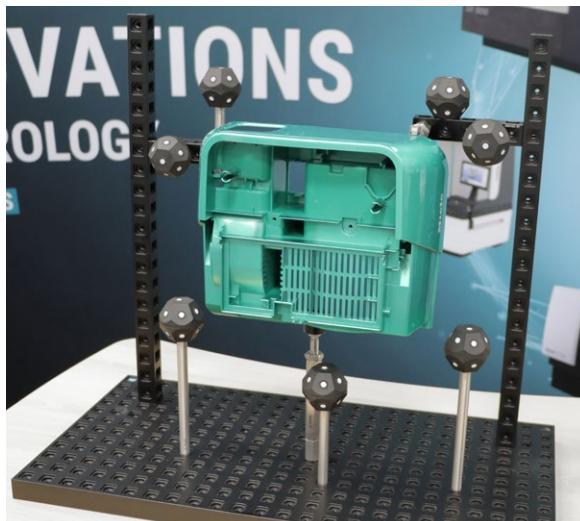


QUADERFIX fixating system + Target-Bases



Universal test piece and Target-Base fixating system QUADERFIX for large parts

- » Module system for constructing arbitrary fixtures from standard square elements
- » Non-rotating construction of connections for a high-strength 3D configuration
- » Wide choice of structural elements, extensions, supports and clamping elements
- » Compatible with all other dk fixating programmes for infinite variations
- » 4 side direct adaptation of Target-Bases on M6 threads in a 25 mm grid



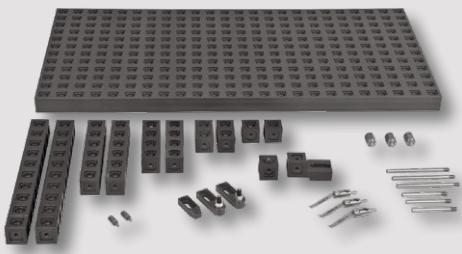
Reversible frame constructions from the QUADERFIX programme

- » The modular system also permits the configuration of rectangular or free-form frames
- » Test specimens secured by means of supports and clamping elements can be rotated through 180° together with the frame and Target-Bases and securely repositioned
- » Baseplate either on the machine or from one of the dk fixating programmes



QUADERFIX + Target-Bases components

QUADERFIX basic set item No. 369915



QUADERFIX expansion set item No. 369930



QUADERFIX fastening set item No. 369800



QUADERFIX Produktfinder

Basiselemente Zubehör

-  [Grundplatten Quader Seite 192](#)

Aufbauelemente Zubehör

-  [Quadersäulen einheitlich Seite 194](#)
-  [Quadersäulen mehrreihig Seite 195](#)
-  [Quader-Prismenplatten Seite 196](#)
-  [Quader-Prismenpaare Seite 196](#)
-  [Quader-Verstärkungswinkel Seite 198](#)
-  [Quader-Strebe zur Versteifung Seite 198](#)

Spannlemente

-  [Federspanner Seite 212](#)
-  [Säulen mit Gewinde Seite 213](#)
-  [Halteplatten für Säulen Seite 214](#)
-  [Waagerechtspanner mit Auflage Seite 215](#)
-  [Adapter T-Nut / Quader Seite 216](#)
-  [Schnellspannhalter für Quader Seite 217](#)

Sets

-  [Quaderfix Basicset Seite 218](#)
-  [Quaderfix Ausbauset Seite 220](#)
-  [Quaderfix Verschraubungsmaterial Seite 221](#)

[†]The entire QUADERFIX module system covers 33 pages of the dk catalogue

Individual components

Target-Base size M and L, 10 piece set

Description

10 x M with 19 faces; M6 thread; suitable for Ø 3 mm reference points

10 x L with 31 faces; M6 thread; suitable for Ø 8 mm reference points

10 x XL with 31 faces; M6 thread; suitable for Ø 12 mm reference points

Order number

441010

441020

441030



SPANNFIX fixating system + Target-Support



SPANNFIX fixating programme

These fixation programmes developed for conventional measuring technologies offer solutions for all conceivable test part setups in the scanning domain.

- » Several proven and comprehensive modular systems that can all be combined with each other
- » Very wide choice of basic and structural elements, extensions, supports and clamping elements
- » Process optimised designed fixtures made from standard parts
- » Precise repeatable positioning when measuring identical parts
- » Target-Bases adaptable directly to the fixating system or indirectly via articulated arms



Target-Support

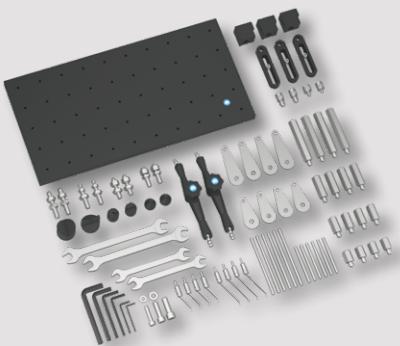
The reference points are perfectly positioned via 3D articulated arms using Target-Supports and Target-Bases.

- » No adhesive dots on the specimen
- » Modular principle also by fixating and positioning the measuring marks
- » Very rapid placement of the measuring marks used for positioning as these are already stuck onto the Target-Bases
- » Very easy to readjust and supplement if reference points are missing
- » Can be dismantled & reconfigured as often as required
- » Precise and very robust

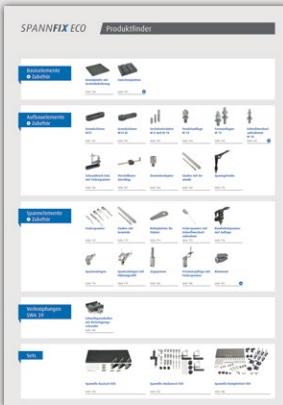
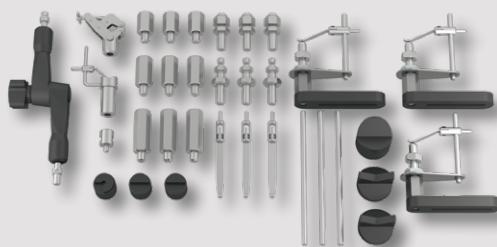


SPANNFIX ECO components

SPANNFIX ECO starter set item No. 285180



SPANNFIX ECO expansion set item No. 285155



*The entire SPANNFIX module system covers 33 pages of the dk catalogue

3D joint + Target-Support components

Sets

3D Joint set with Target-Supports

Description

Set contents: 1 x adjustable base rail for articulated arm (245150);
1 x TurnStop articulated joint (241030); Target-Support rail (441060);
4 x M6 hex columns for Target-Bases (441050);
10 x Target-Bases size M (441010); 10 x Target-Bases size L (441020)

Order number

441220



Individual components

Adjustable base rail for M5, M6 and M8

Description

For mounting on turntables; adjustment range 170 mm; mounting of articulated arm via M8

Order number

245150



TurnStop articulated joint TS-280 with 280 mm action radius

Description

For arbitrary spatial positioning of the OCTOFIX frames;
Lower connector thread M8; upper connector thread for OCTOFIX M8;
high-strength central locking with progressive clamping sequence and toothed disc

Order number

241030



200 mm Target-Support rail with 6 faces

Description

With central M8 thread for adaption to TurnStop articulated joint;
14 x M6 threads for adaption to Target-Bases M, L and hex columns

Order number

441060



Hex column with M6 thread for Target-Bases

Description

L 50 mm; 6 faces for adhesive marks; for screwing onto Target-Support rails

Order number

441050



Target-Base size M and L, 10 piece set

Description

10 x M with 19 faces; M6 thread; suitable for Ø 3 mm reference points
10 x L with 31 faces; M6 thread; suitable for Ø 8 mm reference points
10 x XL with 31 faces; M6 thread; suitable for Ø 12 mm reference points

Order number

441010

441020

441030



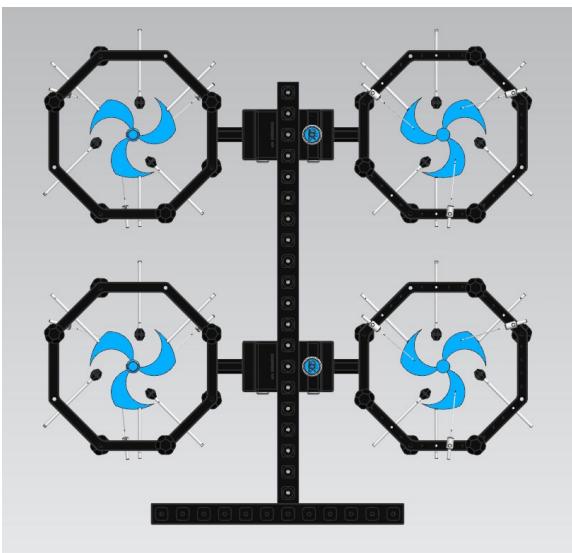
Freely configurable fixtures via 3D downloads

Part and process specific clamping can be individually configured. Easy 3D data downloads of all dk fixating systems from our homepage. Multi-clamping is also possible. The modular construction systems from dk, with more than 1,000 parts, enable endless multiple use through rapid dismantling into the

3D data

Quicker downloads of all CAD data directly from the dk homepage. Simple, free and in any data format.

Example applications

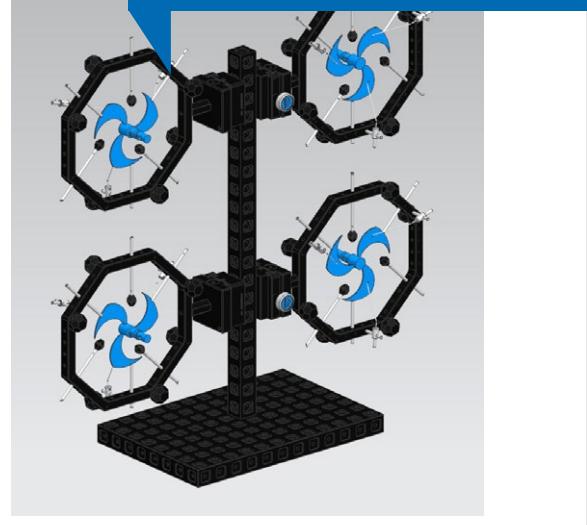


individual components and repeated reconfiguration into further solutions, true to our credo:

FAST. REASSEMBLY. LIFELONG.

3D designer service and user consultation from dk:

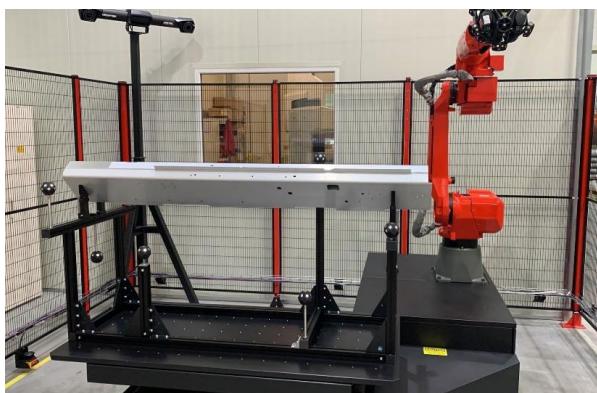
We use your product, system and 3D data to develop a solution that meets your requirements



Custom-made products and automation

We also realise custom-made products without or with only partial use of standard parts.

In doing so, we follow the trend towards automation, where 3D scanning runs in completely unmanned systems.



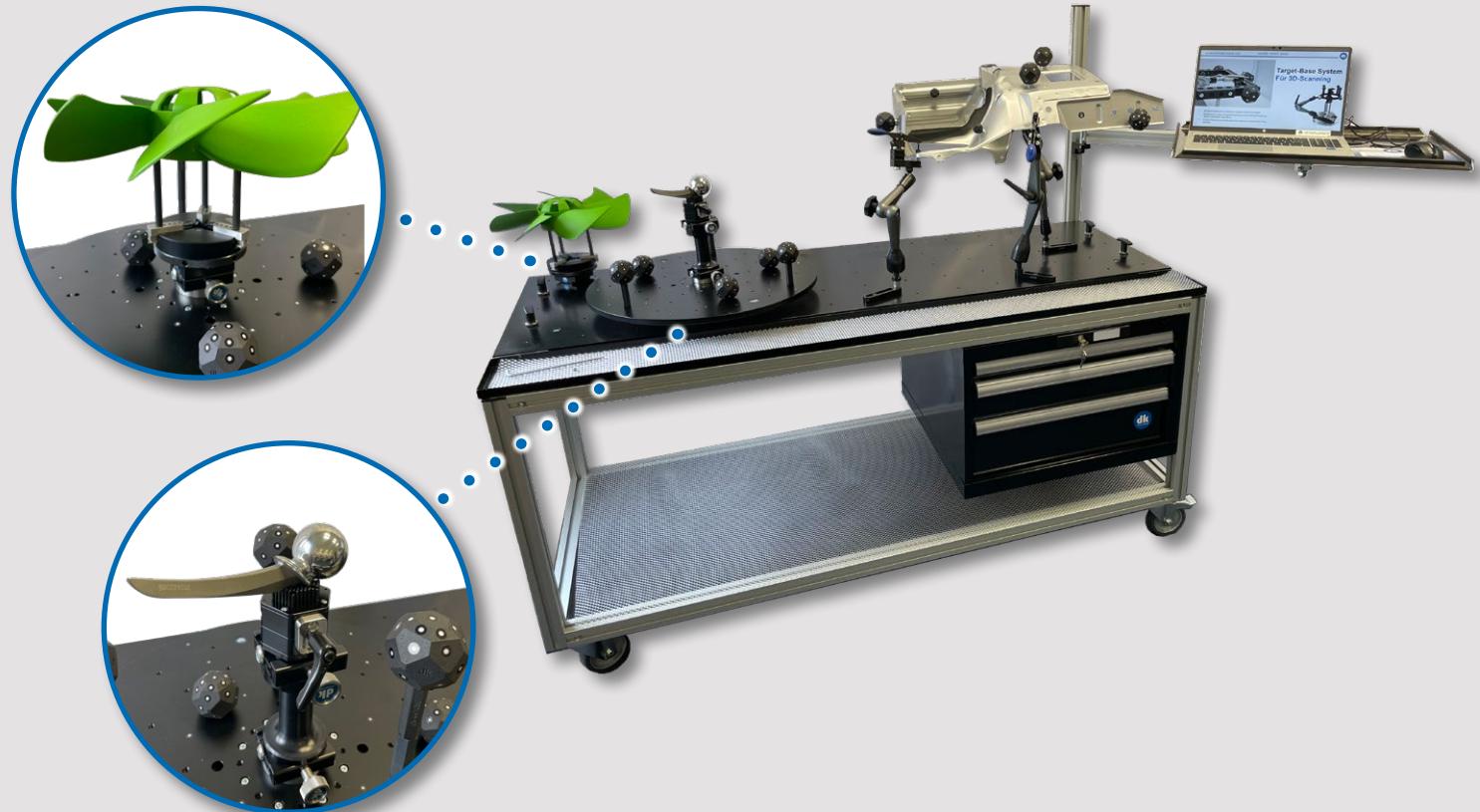
Mobile multifunctional measurement table for applications with 3D scanners

Perfect 3D scanning with dk function tables:

Easy adaptation of all dk fixation systems for fixtures that support the complete scanning of the test specimen in one go. The turn-table in the form of a threaded plate, which can be rotated through 360°, supports this perfectly. Mobile version with lockable swivel castors.

Standard version or customer-specific.

The interchangeable threaded grid plate serves as the overall basis for direct mounting of fixation devices and target bases. Mounts for measuring arm, computer, screen and any other equipment can be added on a modular basis. Tools, adhesive points, scanning sprays and more find the ideal storage space directly on the shelf or in the drawers..



Magnet Target-Base removes the need to stick onto the test specimen

For magnetic capable test objects, the Target-Bases from dk can also be used as a magnetic variant: the reference points can thus be placed as desired, quickly repositioned and finally simply removed.

Magnetic Target-Base size M and L, 10 piece set

Description

Order number

10 x M with 19 faces; magnetic; suitable for Ø 3 mm reference points

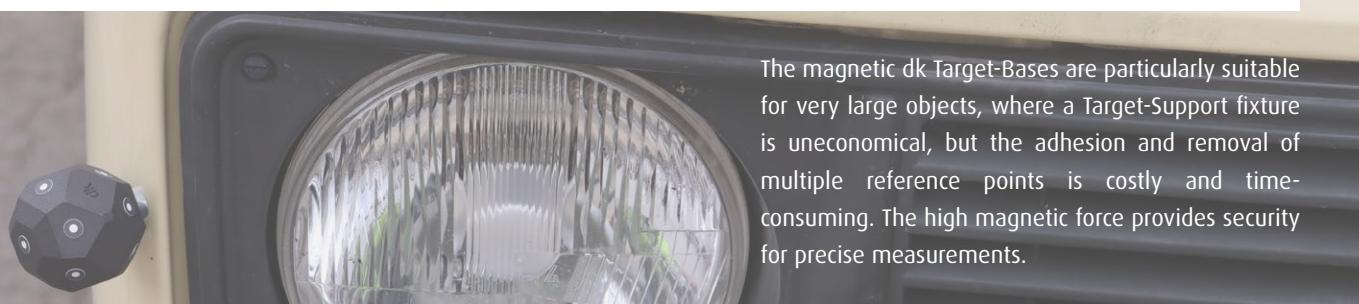
441010-M

10 x L with 31 faces; magnetic; suitable for Ø 8 mm reference points

441020-M

10 x XL with 31 faces; magnetic; suitable for Ø 12 mm reference points

441030-M



The magnetic dk Target-Bases are particularly suitable for very large objects, where a Target-Support fixture is uneconomical, but the adhesion and removal of multiple reference points is costly and time-consuming. The high magnetic force provides security for precise measurements.

Reference points, dot marks, targets & measurement marks as adhesive marks

Self-adhesive measuring points developed by measuring technology and print experts, in the most frequently requested sizes and at an economical cost. Suitable for almost all optical scan systems.

PREMIUM - white / black - reference targets

Order number	Size	Targets per box	Colour	Adhesive strength	Quality
56000101	0.2 mm	4,000	white/black	Standard	Premium
56000102	0.4 mm	4,000	white/black	Standard	Premium
56000103	0.8 mm	4,000	white/black	Standard	Premium
56000104	1.0 mm	4,000	white/black	Standard	Premium
56000105	1.5 mm	4,000	white/black	Standard	Premium
56000106	2.0 mm	3,000	white/black	Standard	Premium
56000107	3.0 mm	3,000	white/black	Standard	Premium
56000108	5.0 mm	2,500	white/black	Standard	Premium
56000109	8.0 mm	1,200	white/black	Standard	Premium
56000110	0.2 mm	4,000	white/black	Strong	Premium
56000111	0.4 mm	4,000	white/black	Strong	Premium
56000112	0.8 mm	4,000	white/black	Strong	Premium
56000113	1.0 mm	4,000	white/black	Strong	Premium
56000114	1.5 mm	4,000	white/black	Strong	Premium
56000115	2.0 mm	3,000	white/black	Strong	Premium
56000116	3.0 mm	3,000	white/black	Strong	Premium
56000117	5.0 mm	2,500	white/black	Strong	Premium
56000118	8.0 mm	1,200	white/black	Strong	Premium

Premium quality on a sheet

Highend print:
Highest contrast & print definition

Precut:
Laser cut for perfect handling & precision



RETRO - reference targets

Order number	Size	Targets per box	Colour	Adhesive strength
56000301	3.0 mm	960	Retro	Standard
56000302	6.0 mm	960	Retro	Standard
56000303	3.0 mm	4,000	Retro	Standard
56000304	6.0 mm	4,000	Retro	Standard
56000305	8.0 mm	800	Retro	Strong
56000306	12.0 mm	800	Retro	Strong



STANDARD - white / black - reference targets

Order number	Size	Targets per box	Colour	Adhesive strength	Quality
56000201	1.5 mm	6,000	white/black	Light	Standard
56000202	3.0 mm	6,000	white/black	Light	Standard
56000203	5.0 mm	6,000	white/black	Light	Standard
56000204	8.0 mm	5,000	white/black	Light	Standard
56000205	10.0 mm	3,000	white/black	Light	Standard
56000206	12.0 mm	3,000	white/black	Light	Standard
56000207	1.5 mm	6,000	white/black	Strong	Standard
56000208	3.0 mm	6,000	white/black	Strong	Standard
56000209	5.0 mm	6,000	white/black	Strong	Standard
56000210	8.0 mm	5,000	white/black	Strong	Standard
56000211	12.0 mm	3,000	white/black	Strong	Standard

Standard quality on a roll

Standard print:
High quality with a matt finish

Precut:
Conventional punch technology for easy handling with large areas



High performance 3D scanning spray for optical 3D measuring technology



Optimised matting sprays with the high purity established substance cyclododecane. The product series contains three different products with process-specific selectable sublimation times up to residue-free volatilisation, which makes downstream parts cleaning superfluous. Furthermore, a semi-permanent scanning spray for highest contrasts with easy cleaning is available, based on natural raw materials.

High performance 3D scanning sprays

ATTBLIME ABzero

Description

Solvent-reduced for sensitive surfaces;
For small and medium components; scan time up to 1 hour;
Residue-free sublimation after 1 to 2 hours; no cleaning necessary

Order number

56000401



ATTBLIME AB2

Description

With perfect application of around 3.6 µ;
For small and medium components; scan time 1 to 2 hours;
Residue-free sublimation after 2 to 4 hours; no cleaning necessary

Order number

56000402



ATTBLIME AB6

Description

Reliably long lasting without re-spraying;
For medium to large components; scan time 2 to 6 hours;
Residue-free sublimation after 6 to 24 hours; no cleaning necessary

Order number

56000403



ATTBLIME ABP

Description

Semi-permanent scanning spray with the optimised tone cooperative grey;
Maximum contrast for the latest generation of optical measuring systems;
Scan time arbitrary as no sublimation;
Easy removal for residue-free cleaning

Order number

56000404



*Order quantity / PU: 6, 12, 48 or 96 aerosol cans with 400 ml

The high performance 3D scanning sprays are free from ethanol, titanium dioxide, n-hexane and adamantine. The raw material cyclododecane (CDC) contained in the residue-free sublimating scanning sprays does not bioaccumulate in aquatic organisms. CDC is therefore harmless to humans and the environment and can be applied much more sparingly than alternative products. CDC is also exempt from labelling according to GHS / Globally Harmonised System.

The pigments contained in the permanent scanning spray ABP are based on renewable natural raw materials.

All sprays shown are "Made in Germany".

We are happy to supply diverse other products on request.





TACTILE MEASURING



OPTICAL MEASURING



MACHINE VISION & SENSOR



CONTOUR & SURFACE MEASUREMENT



COMPUTED TOMOGRAPHY



3D LASER SCANNING



dk FIXIERSYSTEME GmbH & Co. KG

Untere Breite 7
D-72144 Dußlingen

Tel. +49 (0) 7072 60042-0
info@dk-fixiersysteme.de
www.dk-fixiersysteme.de

modular. simple. better.

The entire world of fixating, clamping and positioning

The comprehensive standard construction sets with around 1,000 parts by dk FIXIERSYSTEME for metrology technology offer the following advantages:

- » Modular system that has grown and been tried and tested for decades
- » Modularity across different lines
- » Solutions for every positioning task
- » Efficiency through synergetic effects through several industry solutions



FAST
REASSEMBLY
LIFELONG



The basic principle of all dk FIXIERSYSTEME!

Our fixtures have a modular design, may be dismantled at any time and reassembled to their initial state. The compatibility of dk FIXIERSYSTEME ensures perfect utility value.